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RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/937,009
Source: PCP/09
Date Processed by STIC: 5/15/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <i>504437026</i>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleic <input type="checkbox"/> Wrapped Aminos	The number text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping".	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino <input type="checkbox"/> Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 <input type="checkbox"/> "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences <input type="checkbox"/> (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (ii) SEQUENCE DESCRIPTION SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences <input type="checkbox"/> (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's <input type="checkbox"/> (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> <input type="checkbox"/> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 <input type="checkbox"/> "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide	



PCT09

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/937,009

DATE: 09/15/2002

TIME: 10:11:41

Input Set: A:\P22517PC.txt

Output Set: N:\CRF3\05152002\1937009.raw

Sequence listing

NON-OCR Text

3 <110> APPLICANT: Alessi, Dario
 4 Palenzona, Anudharan
 5 Lekki, Miria
 6 Currier, Michael
 7 Downes, Peter
 8 Casamayor, Antonio
 10 <120> TITLE OF INVENTION: Enzyme
 12 <130> FILE REFERENCE: 002.00170
 15 <140> CURRENT APPLICATION NUMBER: 09/937,009
 17 <141> CURRENT FILING DATE: 2000-03-17
 20 <150> PRIOR APPLICATION NUMBER: PCT/GB00/01004
 22 <151> PRIOR FILING DATE: 2000-03-17
 25 <160> NUMBER OF SEQ ID NOS: 21
 29 <170> SOFTWARE: PatentIn Ver. 2.0
 33 <210> SEQ ID NO: 1
 35 <211> LENGTH: 24
 37 <212> TYPE: PRT
 39 <213> ORGANISM: Artificial Sequence
 43 <220> FEATURE:
 45 <223> OTHER INFORMATION: Description of Artificial Sequence (peptide)
 49 <400> SEQUENCE: 1
 51 Arg Glu Pro Arg Ile Leu Ser Glu Glu Glu Glu Met Phe Arg Asp (amide)
 53 1 5 10 15
 57 Phe Asp Tyr Ile Ala Asp Trp Cys
 59 21
 65 <210> SEQ ID NO: 2
 67 <211> LENGTH: 24
 69 <212> TYPE: PRT
 71 <213> ORGANISM: Artificial Sequence
 73 <220> FEATURE:
 75 <223> OTHER INFORMATION: Description of Artificial Sequence (peptide)
 77 <400> SEQUENCE: 1
 79 Arg Asp Ile Leu Ala Asp Trp Cys
 81 1 5 10 15
 83 Phe Asp Tyr Ile Ala Asp Trp Cys
 85 21
 87 <210> SEQ ID NO: 3
 89 <211> LENGTH: 24
 91 <212> TYPE: PRT
 93 <213> ORGANISM: Artificial Sequence
 95 <220> FEATURE:
 97 <223> OTHER INFORMATION: Description of Artificial Sequence (peptide)
 99 <400> SEQUENCE: 1

(glutathione)

sufficient

Explanation

(amide)

General molecule

situation

in fact

for example

RAW SEQUENCE LISTING

PATENT APPLICATION NO. US/09/937,009

PCT/US2000/011112

(IMPLANT 1.1)

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OUTPUT SEQ ID: M:\CRF3\05152002\1937009.raw

121 <210> SEQ ID NO: 1
122 <211> LENGTH: 53
123 <212> TYPE: PRT
125 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
141 <223> OTHER INFORMATION: Description of Artificial Sequence(peptide)
145 <400> SEQUENCE: 4147 Leu Asp Tyr Ile Ala Asp Lys Lys
148 10 20 30 40 50153 Leu Met Asp Lys Lys Val Lys Pro Pro Phe Ile Pro Thr Ile Arg Gly
155 19 29 39 49159 Arg Glu Asp Val Ser Asn Phe Asp Asp Glu Phe Thr Ser Glu Ala Pro
161 35 45 55 65

165 Ile Leu Thr Pro Pro

167 50

173 <210> SEQ ID NO: 5

175 <211> LENGTH: 23

177 <212> TYPE: PRT

179 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
185 <223> OTHER INFORMATION: Description of Artificial Sequence(peptide)
189 <400> SEQUENCE: 5191 Asp Glu Asp Ala Ile Lys Arg Ile Asp Gln Ser Glu Phe Glu Gly Phe
193 1 5 10 15

197 Glu Tyr Ile Asn Pro Leu Leu

199 29

205 <210> SEQ ID NO: 6

207 <211> LENGTH: 6

209 <212> TYPE: PRT
211 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
217 <223> OTHER INFORMATION: Description of Artificial Sequence(peptide)
221 <400> SEQUENCE: 6

223 Phe Asp Asp Phe Asp Ile

225 1 5 10 15

227 <210> SEQ ID NO: 7

229 <211> LENGTH: 23

231 <212> TYPE: PRT
233 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
239 <223> OTHER INFORMATION: Description of Artificial Sequence(peptide)
241 <400> SEQUENCE: 7

243 Asp Asp Asp Asp Asp Asp Asp Ile Asp Ile Asp Asp Asp Asp Asp Ile

245 1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

RAW SEQUENCE LISTING

PATENT APPLICATION NO. US/09/937,009

SEARCH RESULTS

SEARCH DATE: 11/11/01

Input SEQ: A:\P22517PC.txt

Output SEQ: N:\CRF3\05152002\1937009.raw

263 <210> SEQ ID NO: 8
265 <211> LENGTH: 11
267 <212> TYPE: PRF
269 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <221> OTHER INFORMATION: Description of Artificial Sequence: peptide
279 <400> SEQUENCE: 8
281 Pro His Phe Pro Gln Phe Ser Thr Ser Ala Ser
282 1 5 10
289 <210> SEQ ID NO: 9
291 <211> LENGTH: 1
293 <212> TYPE: PRF
295 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
301 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide
305 <400> SEQUENCE: 9
307 Thr Phe Cys Gly Thr Pro Glu Phe Leu
308 1 5
315 <210> SEQ ID NO: 10
317 <211> LENGTH: 1
319 <212> TYPE: PRF
321 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
327 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide
331 <400> SEQUENCE: 10
333 Phe Glu Gly Phe Glu Tyr
334 1 5
341 <210> SEQ ID NO: 11
343 <211> LENGTH: 13
345 <212> TYPE: PRF
347 <213> ORGANISM: Artificial Sequence
351 <220> FEATURE:
353 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide
357 <400> SEQUENCE: 11
359 Arg Gln Arg Tyr Gln Ser His Pro Asp Ala Ala Val Gln
361 1 5 10
367 <210> SEQ ID NO: 12
369 <211> LENGTH: 13
371 <212> TYPE: PRF
373 <213> ORGANISM: Artificial Sequence
375 <220> FEATURE:
376 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide
379 <400> SEQUENCE: 12
381 <210> SEQ ID NO: 13
383 <211> LENGTH: 1
385 <212> TYPE: PRF
387 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING
PATENT APPLICATION NO. US7097937,009

INVENTOR: GUTHRIE, ROBERT
FILED: 03/09/2007

INVENTOR: GUTHRIE, ROBERT
FILED: 03/09/2007
N:\CRE3\05152002\1937009.raw

404 <223> [REMOVED] INFORMATION: Description of Artificial Sequence<peptide>
405 <210> LENGTH: 13
406 Arg Pro Arg Ile Ala Ala Pro
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415 <210> SEQ ID NO: 14
417 <211> LENGTH: 77
419 <212> TYPE: PRT
421 <213> ORGANISM: Artificial Sequence
425 <220> FEATURE:
427 <223> OTHER INFORMATION: Description of Artificial Sequence<peptide>
431 <400> SEQ ID NO: 14
433 Ser Asp Val Lys Iys His Ile Phe Thr Asn Ile Asp Ile Ser Ala
435 1 5 10 15
437 Ile Met Asp Lys Iys Val Lys Pro Pro Phe Ile Pro Thr Ile Arg Gly
441 20 25 30
443 Arg Ala Asp Val Ser Asn Phe Asp Ser Ile Phe Thr Ser Gly Ala Pro
447 35 40 45
451 Ile Leu Thr Pro Pro Arg Glu Pro Arg Ile Leu Ser Glu Glu Glu Glu
453 50 55 60
457 Glu Met Phe Arg Asp Phe Asp Tyr Ile Ala Asp Itp Lys
459 65 70 75
465 <210> SEQ ID NO: 15
467 <211> LENGTH: 77
469 <212> TYPE: PRT
471 <213> ORGANISM: Artificial Sequence
475 <220> FEATURE:
477 <223> OTHER INFORMATION: Description of Artificial Sequence<peptide>
481 <400> SEQUENCE: 15
483 Glu Asp Val Lys Iys Glu Pro Phe Phe Arg Thr Leu Gly Itp Gly Ala
485 1 5 10 15
489 Leu Leu Ala Arg Arg Leu Pro Pro Pro Phe Val Pro Thr Leu Ser Gly
491 20 25 30
495 Arg Thr Asp Val Ser Asn Phe Asp Glu Glu Phe Thr Gly Glu Ala Pro
501 35 40 45
503 Ile Leu Ser Pro Pro Arg Asp Ala Arg Pro Leu Thr Ala Ala Glu Glu
507 Ala Ala Dic Ile Asp Phe Asp Phe Val Ala Gly Glu Lys
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515 <210> SEQ ID NO: 16
517 <211> LENGTH: 9
519 <212> TYPE: PRT
521 <213> ORGANISM: Artificial Sequence
525 <220> FEATURE:
527 <223> [REMOVED] INFORMATION: Description of Artificial Sequence<peptide>
531 <400> SEQ ID NO: 16
533 Ile Asp Val Lys Iys His Pro Pro Arg Glu Pro Thr Leu Ala Ala Glu Glu
537 Ala Ala Dic Ile Asp Phe Asp Phe Val Ala Gly Glu Lys
543
545

RAW SEQUENCE LISTING

PATENT APPLICATION NO. US 09/937,009

SEARCHED 10/10/01

INDEXED 10/10/01

INPUT SET: A:\P22517PC.txt

INPUT SET: N:\CCF3\05152002\1937009.raw

545 Ile Thr Asp Thr Arg Tyr Phe Asp Glu Ile Phe Thr Ala Ala Met Ile
547 35 40 45 50 55 60 65 70 75 80 85 90 95 100

551 Thr Ile Phe Pro Pro Asp Glu Asp Asp Ser Met Glu Lys Val Asp Ser
553 56 61 66 71 76 81 86 91 96 101

557 Glu Arg Arg Pro His Phe Pro Glu Phe Ser Tyr Ser Ala Ser Thr Ala
561 61 66 70 75 80 85 90 95 100

571 <210> SEQ ID NO: 17

573 <211> LENGTH: 75

575 <212> TYPE: PRT

577 <213> ORGANISM: Artificial Sequence

581 <220> FEATURE

583 <223> OTHER INFORMATION: Description of Artificial Sequence peptide

587 <400> SEQUENCE: 17

589 Glu Glu Val Gln Ala His Pro Phe Phe Arg His Ile Asn Itp Glu Glu

591 1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

595 Leu Leu Ala Arg Lys Val Glu Pro Pro Phe Lys Pro Leu Leu Gln Ser
597 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

601 Glu Glu Asp Val Ser Gln Phe Asp Ser Lys Phe Thr Arg Gln Thr Pro

603 35 40 45 50 55 60 65 70 75 80 85 90 95 100

607 Val Asp Ser Pro Asp Asp Ser Thr Leu Ser Glu Ser Ala Asn Gln Val

609 50 55 60 65 70 75 80 85 90 95 100

613 Phe Leu Gly Phe Thr Tyr Val Ala Pro Ser Val

615 65 70 75 80 85 90 95 100

621 <210> SEQ ID NO: 18

623 <211> LENGTH: 82

625 <212> TYPE: PRT

627 <213> ORGANISM: Artificial Sequence

631 <220> FEATURE

633 <223> OTHER INFORMATION: Description of Artificial Sequence peptide

637 <400> SEQUENCE: 18

639 Met Glu Ile Lys Ser His Val Phe Phe Ser Leu Ile Asn Itp Asp Asp

641 1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

645 Leu Ile Asn Lys Lys Ile Thr Pro Pro Phe Asn Pro Asn Val Ser Glu

647 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

651 Pro Asn Glu Leu Arg His Phe Asp Pro Glu Phe Thr Glu Glu Pro Val

653 35 40 45 50 55 60 65 70 75 80 85 90 95 100

657 Phe Asn Ser Ile Gly Lys Ser Pro Asp Ser Val Leu Val Thr Ala Ser

659 50 55 60 65 70 75 80 85 90 95 100

663 Val Tyr Glu Ala Ala Ala Phe Leu Gly Phe Ser Tyr Ala Arg Pro

665 55 60 65 70 75 80 85 90 95 100

667 <210> SEQ ID NO: 19

671 <211> LENGTH: 76

675 <212> TYPE: PRT

677 <213> ORGANISM: Artificial Sequence

681 <220> FEATURE

683 <223> OTHER INFORMATION: Description of Artificial Sequence peptide

687 <400> SEQUENCE: 19

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/937,009

SEARCHED 3/20/02

FILED 3/20/02

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